

Special Issue

New Trends in Wood Coatings and Surface Modification

Message from the Guest Editors

The use of wood and its biocomposites is one of the main tasks of the Bauhaus and European Green Deal, due to the well-established role of wood in mitigating climatic changes. The new generation of innovative coatings represent a keystone, as they provide a series of properties that overcome the native wood characteristics. New coatings increase hardness, durability to pathogen attack, and general resistance to degradation with a more appreciable aesthetic appearance and minor impact on the final product density. The natural protective organic compounds and nanotechnologies have a fundamental role in this field, together with surface modifications (such as plasma), which increase the efficiency through more eco-friendly products. Smart coatings are also the future in this field, in view of their capability to be selective in their function. The surface of wood and wood composites is fundamental, impacting the efficiency of the new generation of innovative coatings.

Guest Editors

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Deadline for manuscript submissions

closed (30 September 2023)



Coatings

an Open Access Journal
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Impact Factor 2.8
CiteScore 5.4



mdpi.com/si/137827

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About the Journal

Message from the Editorial Board

Now more than ever, research is asked to deliver knowledge and technologies to solve the major challenges faced by our society. The development of new materials and devices for (without the ambition to be exhaustive) energy, health and food technology, together with the need for establishing processes that reduce the impact on critical resources and the environment, is indeed in the spotlight of most contemporary research. Surface science and engineering play a key role in this regard, with an incredible potential in delivering new and deep scientific understanding and technical solutions essential to solve most of the major societal challenges.

Coatings is a well-established, peerreviewed, online journal dedicated to the vibrant field of surface science and engineering. Coatings publishes original research articles that report cutting-edge results and review papers that make the point on the hottest research topics.

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